

## **TECHNICAL ADVISORY BOARD MEETING SCHEDULED**

### **Plains CO<sub>2</sub> Reduction (PCOR) Partnership Phase III Task 13 – Milestone M36**

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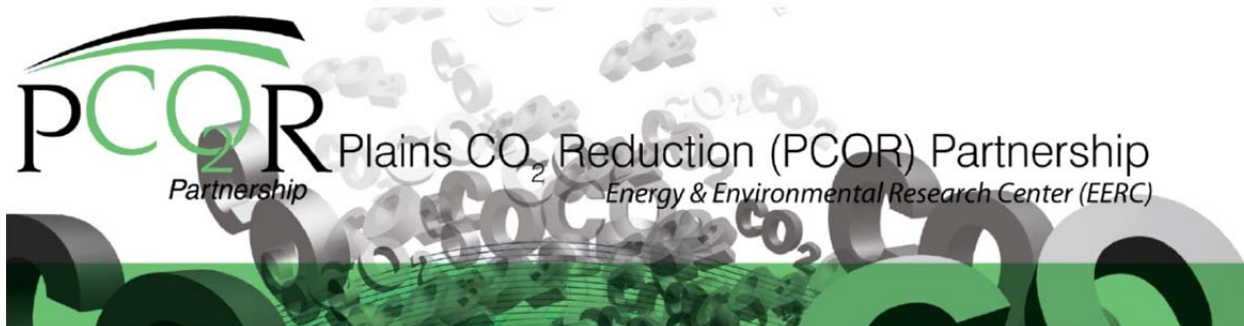
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## **TECHNICAL ADVISORY BOARD MEETING SCHEDULED**

### **BACKGROUND**

The Plains CO<sub>2</sub> Reduction (PCOR) Partnership is one of seven Regional Carbon Sequestration Partnerships (RCSPs) competitively awarded by the U.S. Department of Energy (DOE) National Energy Technology Laboratory (NETL) in 2003 as part of a national plan to mitigate greenhouse gas emissions. The PCOR Partnership is led by the Energy & Environmental Research Center (EERC) at the University of North Dakota and includes stakeholders from the public and private sector. The PCOR Partnership region includes all or part of nine U.S. states and four Canadian provinces.

Phase III, the development phase, a 10-year effort (2007–2017), is an extension of the characterization (Phase I) and validation (Phase II) phases. The Phase III efforts of the PCOR Partnership include two large-volume demonstration tests—one in Canada and one in the United States—that focus on injecting carbon dioxide (CO<sub>2</sub>) into deep geologic formations for CO<sub>2</sub> storage.

DOE required that an independent technical review be undertaken at the outset of the RCSP Phase III Program. DOE approached the IEA Greenhouse Gas R&D Programme (IEAGHG) to undertake this review because of its extensive experience with CO<sub>2</sub> injection projects worldwide. To review the RCSP Program and its Phase III activities, IEAGHG appointed an independent international panel of experts. The experts were drawn from onshore CO<sub>2</sub> injection projects under way in Canada, Europe, and Australia. This initial review was conducted in March 2008.

DOE, through NETL, which manages the RCSP Initiative, required that a second independent review of the program should be undertaken in 2011. IEAGHG again organized this review, held March 14–17, 2011, at the Hilton Hotel in Arlington, Virginia. The 10-member panel comprised experts from Canada, the United Kingdom, Germany, Australia, Japan, and the United States. The PCOR Partnership gave an hour-long presentation, followed by 90 minutes of questions and answers, on March 15, 2011.

Following the presentation and question-and-answer session, the expert panel discussed its assessment of the PCOR Partnership's two demonstration-level projects and compiled comments and recommendations for each project. Based on these discussions and the written comments provided, IEAGHG prepared an evaluation for each project reviewed. The expert panel's evaluation of the PCOR Partnership's projects was received in June 2011. A fundamental

component of the NETL expert review process is that the recommendations identified by the expert panel are required to be addressed.

The panel's recommendations for both of the PCOR Partnership's projects, i.e., the Fort Nelson Carbon Capture and Storage (CCS) Project and the Bell Creek Integrated CO<sub>2</sub> Enhanced Oil Recovery (EOR) and CO<sub>2</sub> Storage Project, included for consideration the "appointment of scientific and/or operational advisory boards or committees." When formal responses to the recommendations were submitted in August 2011, the EERC decided to establish a single-panel advisory board to provide scientific guidance on the entire PCOR Partnership Program, including both demonstration sites.

In September 2011, DOE issued a contract modification, No. 21, authorizing the creation of an advisory board under the Statement of Project Objectives (SOPO) Task 13 – Project Management. DOE also agreed to fund meetings and associated expenses through September 30, 2015. The SOPO was amended to include the following provisions:

#### Subtask 13.2 – Advisory Board Meetings

*Subtask 13.2.1 – Select Advisory Board Members.* An advisory board, consisting of no fewer than five non-EERC advisors, will be selected from among knowledgeable persons in the fields of CCS and EOR. The advisors will have no term requirements or limits, but their service will be dependent upon availability.

*Subtask 13.2.2 – Hold Advisory Board Meetings.* Advisory board meetings will be scheduled to occur prior to the annual project meeting and will take into consideration the availability of selected advisors and, when feasible, be held in conjunction with another carbon management event or conference. The recommendations of the advisory board shall be reported at the successive annual project meeting.

In addition, a new milestone, M36, was created, and due dates were scheduled on March 31 for Program Years 5–8 (2012–2015).

#### **Inaugural PCOR Partnership Technical Advisory Board (TAB) Meeting Scheduled and Held**

The inaugural TAB meeting was scheduled for February 15 and 16, 2012, in San Diego, California (see agenda provided in Appendix A). The first TAB comprises the following carbon capture, utilization, and storage and EOR experts:

- Bill Jackson, BillyJack Consulting, Inc. (Chair)
- Stefan Bachu, Alberta Innovates – Technology Futures
- Ray Hattenbach, Blue Strategies
- Lynn Helms, North Dakota Industrial Commission
- Mike Jones, Lignite Energy Council
- Steve Melzer, Melzer Consulting
- Tom Olle, Texas International Energy Partners

- Steve Whittaker, Global CCS Institute
- Neil Wildgust, Petroleum Technology Research Centre

Although only five board members are required for a quorum, all nine appointed members were present and participated in the first meeting (see Figure 1). After several presentations and discussions (see Figure 2), the TAB commended the EERC and its PCOR Partnership for fostering and establishing numerous industrial partnerships. In addition, the PCOR Partnership Atlas was highlighted as an extremely valuable tool for identifying potential sources of CO<sub>2</sub> in the region.

The next TAB meeting is scheduled as a breakfast meeting to be held in conjunction with the PCOR Partnership Annual Meeting on September 12, 2012, in Milwaukee, Wisconsin. This meeting is meant to serve as a brief recap of previously discussed items and recommendations and to finalize the report to be given to the entire partnership during the annual meeting. A highly technical optional meeting to be held at the EERC in summer 2012 was also raised as a possibility.



Figure 1. PCOR Partnership 2012 Technical Advisory Board members; from left: Bill Jackson (Chair), Ray Hattenbach, Lynn Helms, Steve Whittaker, Neil Wildgust, Mike Jones, Tom Olle, Stefan Bachu, and Steve Melzer.



Figure 2. Technical Advisory Board members and EERC staff reviewing project details.

**APPENDIX A**

**PCOR PARTNERSHIP TECHNICAL ADVISORY  
BOARD MEETING AGENDA**



# PCOR PARTNERSHIP TECHNICAL ADVISORY BOARD MEETING



## AGENDA

Wednesday, February 15 – Thursday, February 16, 2012

Paradise Point Resort  
Sunset Ballroom III

### Purpose:

PCOR Partnership Technical Advisory Board Meeting

Casual dress is recommended.

### Tuesday, February 14, 2012

TIME	ACTIVITY	DISCUSSION LEADER(S)
6:00 p.m.	Optional Dinner <i>[Barefoot Bar &amp; Grill]</i>	All

### Wednesday, February 15, 2012 – Day 1

TIME	ACTIVITY	DISCUSSION LEADER(S)
Noon	Business Lunch <i>[Sunset Ballrooms I and II]</i>	All
1:00 p.m.	Welcome and Introductions	John Harju
1:20 p.m.	Meeting Overview	Dave Nakles, Facilitator
1:30 p.m.	Recap and Recommendations of 2011 Expert Review; 2012 PCOR Partnership Goals and Objectives	Ed Steadman
1:50 p.m.	Technical Advisory Board Overview (why created, purpose, responsibilities, terms of service)	Bill Jackson, Chair
2:15 p.m.	Break <i>[Sunset Ballroom Deck]</i>	All
2:30 p.m.	Regional Characterization and Basal Cambrian (Deadwood Formation) Overview and Discussion	Jim Sorensen
3:00 p.m.	Bell Creek Overview and Discussion	John Harju
3:45 p.m.	Snack Break <i>[Sunset Ballroom Deck]</i>	All

**Wednesday, February 15, 2012 – Day 1 (continued)**

4:00 p.m.	Fort Nelson Overview and Discussion	Jim Sorensen
4:45 p.m.	Regulatory Overview and Discussion	John Harju
5:10 p.m.	Zama and Aquistore Overview and Discussion	Jim Sorensen
5:30 p.m.	Adjourn Day 1	
6:30 p.m.	Business Dinner <i>[Baleen Restaurant – Garden Room]</i>	All + Guests

**Thursday, February 16, 2012 – Day 2**

TIME	ACTIVITY	DISCUSSION LEADER(S)
8:30 a.m.	Breakfast <i>[Sunset Ballrooms I and II]</i>	All
9:00 a.m.	Welcome and Open Discussion	Dave Nakles, Facilitator
10:30 a.m.	Morning Snack Break <i>[Sunset Ballroom Deck]</i>	All
11:00 a.m.	Technical Advisory Board Recommendations	Bill Jackson, Chair
11:55 a.m.	Next Meeting: September 12, 2012, at 7:30 a.m., Milwaukee, Wisconsin (in conjunction with PCOR Partnership annual meeting)	John Harju
Noon	Adjourn Day 2	

**Thursday, February 16, 2012 – Wrap-Up Meeting**

TIME	ACTIVITY	PARTICIPANTS
1:00 p.m.	Wrap-Up Discussion	Bill Jackson, Dave Nakles, John Harju, Ed Steadman, Katherine Anagnost

**PCOR Partnership Technical Advisory Board Members:**

Bill Jackson, BillyJack Consulting, Chair  
 Stefan Bachu, Alberta Innovates – Technology Futures  
 Ray Hattenbach, Blue Strategies  
 Lynn Helms, North Dakota Industrial Commission  
 Mike Jones, Lignite Energy Council  
 Steve Melzer, Melzer Consulting  
 Tom Olle, Texas International Energy Partners  
 Steve Whittaker, Global CCS Institute  
 Neil Wildgust, Petroleum Technology Research Centre

**Meeting Facilitator:**

Dave Nakles, Nakles Consulting

**Ex Officio Members:**

John Harju, EERC  
 Ed Steadman, EERC  
 Jim Sorensen, EERC

**Additional Participants:**

Steve Hawthorne, EERC  
 Katherine Anagnost, EERC